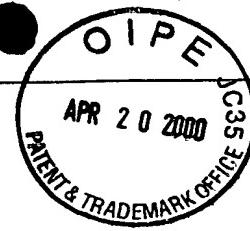


## SEQUENCE LISTING



<110> Hovanessian, Ara  
Callebaut, Christian  
Krust, Bernard  
Jacotot, Etienne  
Muller, Sylviane  
Briand, Jean-Paul  
Guichard, Giles

<120> A NOVEL CELL SURFACE RECEPTOR FOR HIV RETROVIRUSES,  
THERAPEUTIC AND DIAGNOSTIC USES.

<130> 03495.0166-01000

<140> 09/393,302  
<141> 1999-09-10

<150> PCT/EP98/01409  
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Arg Gln Ala His Cys Asn Ile Ser  
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Pro Gln Lys Lys Gly Lys Lys Ala Ala Ala Thr Ser Ala Lys Lys Val  
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Val Val Ser Pro Thr Lys Lys Val Ala Val Ala Thr Pro Ala Lys Lys  
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Ala Ala Val Thr Pro Gly Lys Lys Ala Ala Ala Thr Pro Ala Lys Lys  
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Thr Val Thr Pro Ala Lys Ala Val Thr Thr Pro Gly Lys Lys Gly Ala  
100 105 110

Thr Pro Gly Lys Ala Leu Val Ala Thr Pro Gly Lys Lys Gly Ala Ala  
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Ile Pro Ala Lys Gly Ala Lys Asn Gly Lys Asn Ala Lys Lys Glu Asp  
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Glu Asp Glu Asp Glu Asp Glu Ile Glu Pro Ala Ala Met Lys  
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Ala Ala Ala Ala Ala Pro Ala Ser Glu Asp Glu Asp Asp Glu Asp Asp  
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Glu Asp Asp Glu Asp Asp Asp Asp Glu Glu Asp Asp Ser Glu Glu  
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Glu Ala Met Glu Thr Thr Pro Ala Lys Gly Lys Lys Ala Ala Lys Val  
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Val Pro Val Lys Ala Lys Asn Val Ala Glu Asp Glu Asp Glu Glu Glu  
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Glu Phe Ala Ser Phe Glu Asp Ala Lys Glu Ala Leu Asn Ser Cys Asn  
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Glu Ala Met Glu Asp Gly Glu Ile Asp Gly Asn Lys Val Thr Leu Asp  
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Phe Gly Gly Arg Gly Arg Gly Gly Phe Gly Gly Arg Gly Gly Phe Arg  
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&lt;210&gt; 24

&lt;211&gt; 249

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 24

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Glu | Met | Gly | Arg | Arg | Ile | His | Leu | Glu | Leu | Arg | Asn | Arg | Thr | Pro |
| 1   |     | 5   |     |     |     |     |     | 10  |     |     |     |     | 15  |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Asp | Val | Lys | Glu | Leu | Val | Leu | Asp | Asn | Ser | Arg | Ser | Asn | Glu | Gly |
|     |     |     | 20  |     |     |     | 25  |     |     |     |     | 30  |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Leu | Glu | Gly | Leu | Thr | Asp | Glu | Phe | Glu | Leu | Glu | Phe | Leu | Ser |
|     |     |     | 35  |     |     | 40  |     |     |     | 45  |     |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ile | Asn | Val | Gly | Leu | Thr | Ser | Ile | Ala | Asn | Leu | Pro | Lys | Leu | Asn |
|     |     |     | 50  |     |     | 55  |     |     |     | 60  |     |     |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Leu | Lys | Lys | Leu | Glu | Leu | Ser | Asp | Asn | Arg | Val | Ser | Gly | Gly | Leu |
|     |     |     | 65  |     |     | 70  |     |     |     | 75  |     |     | 80  |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Val | Leu | Ala | Glu | Lys | Cys | Pro | Asn | Leu | Thr | His | Leu | Asn | Leu | Ser |
|     |     |     |     |     |     |     | 85  |     |     | 90  |     |     | 95  |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Asn | Lys | Ile | Lys | Asp | Leu | Ser | Thr | Ile | Glu | Pro | Leu | Lys | Lys | Leu |
|     |     |     |     |     |     |     | 100 |     |     | 105 |     |     | 110 |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Asn | Leu | Lys | Ser | Leu | Asp | Leu | Phe | Asn | Cys | Glu | Val | Thr | Asn | Leu |
|     |     |     |     |     |     |     | 115 |     |     | 120 |     |     | 125 |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Asp | Tyr | Arg | Glu | Asn | Val | Phe | Lys | Leu | Leu | Pro | Gln | Leu | Thr | Tyr |
|     |     |     |     |     |     |     | 130 |     |     | 135 |     |     | 140 |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Asp | Gly | Tyr | Asp | Arg | Asp | Asp | Lys | Glu | Ala | Pro | Asp | Ser | Asp | Ala |
|     |     |     |     |     |     |     | 145 |     |     | 150 |     |     | 155 |     | 160 |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Gly | Tyr | Val | Glu | Gly | Leu | Asp | Asp | Glu | Glu | Glu | Asp | Glu | Asp | Glu |
|     |     |     |     |     |     |     | 165 |     |     | 170 |     |     | 175 |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Glu | Tyr | Asp | Glu | Asp | Ala | Gln | Val | Val | Glu | Asp | Glu | Glu | Asp | Glu |
|     |     |     |     |     |     |     | 180 |     |     | 185 |     |     | 190 |     |     |

Asp Glu Glu Glu Glu Gly Glu Glu Asp Val Ser Gly Glu Glu Glu  
 195 200 205

Glu Asp Glu Glu Gly Tyr Asn Asp Gly Glu Val Asp Asp Glu Glu Asp  
 210 215 220

Glu Glu Glu Leu Gly Glu Glu Arg Gly Gln Lys Arg Lys Arg Glu  
 225 230 235 240

Pro Glu Asp Glu Gly Glu Asp Asp Asp  
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<211> 916

<212> DNA

<213> Homo sapiens

<400> 25

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 taagaagctt gaactaagcg ataacagagt ctcaagggggc ctggaaatgtat tggcagaaaa 360  
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<210> 26

<211> 277

<212> PRT

<213> Homo sapiens

<400> 26

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 20 25 30

Glu His Ile Asp Glu Val Gln Asn Glu Ile Asp Arg Leu Asn Glu Gln  
 35 40 45

Ala Ser Glu Glu Ile Leu Lys Val Glu Gln Lys Tyr Asn Lys Leu Arg  
 50 55 60

Gln Pro Phe Phe Gln Lys Arg Ser Glu Leu Ile Ala Lys Ile Pro Asn  
 65 70 75 80

Phe Trp Val Thr Thr Phe Val Asn His Pro Gln Val Ser Ala Leu Leu  
 85 90 95

Gly Glu Glu Asp Glu Glu Ala Leu His Tyr Leu Thr Arg Val Glu Val  
 100 105 110

Thr Glu Phe Glu Asp Ile Lys Ser Gly Tyr Arg Ile Asp Phe Tyr Phe  
 115 120 125

Asp Glu Asn Pro Tyr Phe Glu Asn Lys Val Leu Ser Lys Glu Phe His  
 130 135 140

Leu Asn Glu Ser Gly Asp Pro Ser Ser Lys Ser Thr Glu Ile Lys Trp  
 145 150 155 160

Lys Ser Gly Lys Asp Leu Thr Lys Arg Ser Ser Gln Thr Gln Asn Lys  
 165 170 175

Ala Ser Arg Lys Arg Gln His Glu Glu Pro Glu Ser Phe Phe Thr Trp  
 180 185 190

Phe Thr Asp His Ser Asp Ala Gly Ala Asp Glu Leu Gly Glu Val Ile  
 195 200 205

Lys Asp Asp Ile Trp Pro Asn Pro Leu Gln Tyr Tyr Leu Val Pro Asp  
 210 215 220

Met Asp Asp Glu Glu Gly Glu Glu Asp Asp Asp Asp Asp Glu  
 225 230 235 240

Glu Glu Glu Gly Leu Glu Asp Ile Asp Glu Glu Gly Asp Glu Asp Glu  
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Gly Glu Glu Asp Glu Asp Asp Glu Gly Glu Glu Gly Glu Asp  
 260 265 270

Glu Gly Glu Asp Asp  
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<210> 27

<211> 924

<212> DNA

<213> Homo sapiens

<400> 27

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 attgatgaag tacaaaatga aatagacaga cttaatgaac aagccagtga ggagatttg 180  
 aaagttagaac agaaatataa caaactccgc caaccattt ttccagaagag gtcagaattt 240  
 atcgccaaaa tccccaaattt ttgggttaaca acatttgtca accatccaca agtgtctgca 300  
 ctgcttgggg aggaagatga agaggcactg cattatttga ccagagttga agtgacagaa 360  
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 aaccattac agtactactt gttcccgat atggatgtat aagaaggaga aggagaaaa 720

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
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| gatgaaggtg | aagaagatga | agatgatgat | gaaggggagg  | aaggagagga | ggatgaagga | 840 |
| gaagatgact | aatagaaca  | ctgatggatt | ccaaccttcc  | ttttttaaa  | ttttctccag | 900 |
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<211> 2518

<212> DNA

<213> Homo sapiens

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<212> PRT

<213> Human immunodeficiency virus

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<210> 30  
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<213> Human immunodeficiency virus

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<210> 31  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 31  
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b/t  
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<210> 32  
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<400> 32  
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